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EXAMINER				
YU, HENRY W				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/566,001

**Applicant(s)**

POSTMA ET AL.

**Examiner**

HENRY YU

**Art Unit**

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 10 May 2010.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-19 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 20 January 2009 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO/GS-08)  
Paper No(s)/Mail Date 05/10/2010  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### **INFORMATION CONCERNING RESPONSES**

#### ***Response to Amendment***

1. This Office Action is in response to applicant's communication filed on May 10, 2010, in response to PTO Office Action mailed on February 18, 2010. The Applicant's remarks and amendments to the claims and/or the specification were considered with the results that follow.
2. In response to the last Office Action, **claims 1-19** have been amended. As a result, **claims 1-19** are now pending in this application.

#### ***Response to Arguments***

3. Applicant's arguments filed on May 10, 2010, in response to PTO Office Action mailed on February 18, 2010, have been fully considered and are persuasive. Hence, the rejection has been withdrawn. However, upon further review a new ground of rejection has been made in view of Hiltgen (Publication Number US 2004/0216140 A1).

### **REJECTIONS BASED ON PRIOR ART**

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1, 3-5, 7-9, and 12-13, and 18-19** are rejected under 35 U.S.C. 103(a) as being unpatentable over Striemer (Patent Number US 6,931,463 B2) in view of DeGeorge (Publication Number US 2003/0135868 A1) and Hiltgen (Publication Number US 2004/0216140 A1).

As per **claim 1**, Striemer discloses *"an...system comprising one or more functionality devices (**companion device that provides non-native function to a different electronic device; Column 1, lines 54-56**) and an... device adapted so that the one or more functionality devices are locatable in proximity to the...device (**Column 1, lines 59-65**)."*

Striemer also discloses *"the...device being operable to recognize the presence of the one or more functionality devices (**Column 1, lines 59-62**), and, upon recognition of said one or more functionality devices, the...device being updateable with and operable to perform one or more additional functionality features associated with said one or more functionality devices and which are non-standard features of said...device (**Abstract, lines 1-2**) whilst said one or more functionality devices are in proximity to the...device (**Column 1, lines 62-67; Column 2, lines 1-7**)."*

However, Striemer does not explicitly disclose that the device in question is an *"entertainment device."*

DeGeorge discloses an entertainment device that is capable of obtaining additional features [**Page 4, paragraph 0036**].

Neither Striemer nor DeGeorge explicitly disclose one set of features/modules' being operable/compatible with additional/future sets of features/modules as disclosed in the limitation *"wherein the non-standard features are configured to be (i) concurrently operable with the one or more additional functionality features and (ii) selectively updateable by the one or more additional functionality features."*

Hiltgen discloses one set of features/modules' being operable/compatible with additional/future sets of features/modules as disclosed in the limitation *"wherein the non-standard features are configured to be (i) concurrently operable with the one or more additional functionality features (it is noted that the wording of the claims appears to indicate that the non-standard features and the additional functionality features are one in the same (see claim 1 of instant application on lines 8-11, particularly concerning the passage 'one or more additional functionality...which are non-standard features...'). Nevertheless, Hiltgen shows, in FIG. 5, that from the viewpoint of the custom script, the operating system/hardware contains features A and B which are not part of the custom script) and (ii) selectively updateable by the one or more additional functionality features (as seen in example of operating system/hardware A and A' (both contain Features A and B), with A' containing Feature C. Furthermore, there exists an update to API which enables support for features that were previously unsupported; Page 5, paragraph 0064)."*

Striemer, DeGeorge, and Hiltgen are analogous art in that they are from the same field of device configuration and updating.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine elements of Striemer and DeGeorge. It is noted that both Striemer and DeGeorge disclose systems which are capable of being updated by external means (functionality devices in the case of Striemer and data encoded in an outside signal in the case of DeGeorge). DeGeorge further states that it may be desirable to change the operating characteristics of a system (in this case a television receiver) through various means including the use of a smart card [Page 1, paragraphs 0003-0004]. Such an ability to change the operating characteristics of a system can enable a user to obtain additional features or to fix errors in existing systems program code [Page 4, paragraph 0036], and hence provide greater flexibility.

As for Hiltgen, there exists a need to enable a system to accommodate new generations of components/modules (the example used in Hiltgen is data storage systems, though the principle can apply to any other system) in order to prolong the useful life of a system while maintaining compatibility with prior components/modules [Page 1, paragraph 0009-0010].

As per claim 3, the combination of Striemer, DeGeorge, and Hiltgen discloses "the system" (see rejection to claim 1 above). Striemer further discloses "at least one of said one or more functionality devices (**companion device**) and the...device (**from the companion device's perspective, a different electronic device**) are operable to communicate via wireless communication by using an electromagnetic signal (**Column 1, lines 56-59**)."

As per **claim 4**, the combination of Striemer, DeGeorge, and Hiltgen discloses *"the system"* (see rejection to **claim 1** above). Striemer further discloses *"the electromagnetic signal is implemented using electromagnetic radiation complying with the Bluetooth standard (Column 1, lines 56-59)."*

As per **claim 5**, the combination of Striemer, DeGeorge, and Hiltgen discloses *"the system"* (see rejection to **claim 1** above). Striemer further discloses *"access to the one or more additional functionality features of said one or more functionality devices is conditional upon activation of the one or more functionality devices (from the electronic device's perspective, in order to activate the functions of the companion device a link must established, along with the proper authentication and authorization information; Column 5, lines 1-17)."*

As per **claim 7**, the combination of Striemer, DeGeorge, and Hiltgen discloses *"the system"* (see rejection to **claim 1** above). Striemer further discloses *"at least one of said one or more functionality devices is activated by using electromagnetic signal communication with an additional device (through the use of a local wireless interface in conjunction with identification mechanism; Column 5, lines 3-9)."*

As per **claim 8**, the combination of Striemer, DeGeorge, and Hiltgen discloses *"the system"* (see rejection to **claim 1** above). Striemer further discloses *"the activation is conditional upon communication of one or more codes (in order to establish a link, and hence from the electronic device's perspective activate the functionality of the companion device, authentication and authorization information are required; Column 5, lines 9-14)."*

As per **claim 9**, Striemer discloses *"a method of providing additional functionality to an...device, the method including the steps of: (a) providing an...device operable to performing a set of functions (Column 1, lines 59-65)" and "(b) providing at least one functionality device adapted so as to be engagable in at least close spatial proximity to the...device (Column 1, lines 59-65)."*

Striemer also discloses *"(c) arranging for said...device to be capable of recognizing the presence of said at least one functionality device when in close spatial proximity to the...device (Column 1, lines 59-65)" and "(d) arranging for the...device to be updated with and to perform one or more additional functionality features associated with said at least one functionality device and which are non-standard features of said...device (Abstract, lines 1-2) when said at least one functionality device is brought into close spatial proximity whilst said at least one functionality device is maintained in close spatial proximity to said...device (Column 1, lines 62-67; Column 2, lines 1-7)."*

However, Striemer does not explicitly disclose that the device in question is an *"entertainment device."*

DeGeorge discloses an entertainment device that is capable of obtaining additional features **[Page 4, paragraph 0036]**.

Neither Striemer nor DeGeorge explicitly disclose one set of features/modules' being operable/compatible with additional/future sets of features/modules as disclosed in the limitation *"wherein the non-standard features are configured to be (i) concurrently operable with the one or more additional functionality features and (ii) selectively updateable by the one or more additional functionality features."*



Hiltgen discloses one set of features/modules' being operable/compatible with additional/future sets of features/modules as disclosed in the limitation "*wherein the non-standard features are configured to be (i) concurrently operable with the one or more additional functionality features (it is noted that the wording of the claims appears to indicate that the non-standard features and the additional functionality features are one in the same (see claim 1 of instant application on lines 8-11, particularly concerning the passage 'one or more additional functionality...which are non-standard features...'). Nevertheless, Hiltgen shows, in FIG. 5, that from the viewpoint of the custom script, the operating system/hardware contains features A and B which are not part of the custom script) and (ii) selectively updateable by the one or more additional functionality features (as seen in example of operating system/hardware A and A' (both contain Features A and B), with A' containing Feature C. Furthermore, there exists an update to API which enables support for features that were previously unsupported; Page 5, paragraph 0064).*"

Strierner, DeGeorge, and Hiltgen are analogous art in that they are from the same field of device configuration and updating.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine elements of Strierner and DeGeorge. It is noted that both Strierner and DeGeorge disclose systems which are capable of being updated by external means (functionality devices in the case of Strierner and data encoded in an outside signal in the case of DeGeorge). DeGeorge further states that it may be desirable to change the

operating characteristics of a system (in this case a television receiver) through various means including the use of a smart card [Page 1, paragraphs 0003-0004]. Such an ability to change the operating characteristics of a system can enable a user to obtain additional features or to fix errors in existing systems program code [Page 4, paragraph 0036], and hence provide greater flexibility.

As for Hiltgen, there exists a need to enable a system to accommodate new generations of components/modules (the example used in Hiltgen is data storage systems, though the principle can apply to any other system) in order to prolong the useful life of a system while maintaining compatibility with prior components/modules [Page 1, paragraph 0009-0010].

As per claim 12, the combination of Striemer, DeGeorge, and Hiltgen discloses "the method" (see rejection to claim 9 above). Striemer further discloses "said at least one functionality device (**companion device**) and said...device (**from the companion device's perspective, a different electronic device**) are arranged to mutually communicate via wireless communication utilizing an electromagnetic signal (**Column 1, lines 56-59**)."

As per claim 13, the combination of Striemer, DeGeorge, and Hiltgen discloses "the method" (see rejection to claim 9 above). Striemer further discloses "the electromagnetic signal complies with the Bluetooth standard (**Column 1, lines 56-59**)."

As per claim 18, the combination of Striemer, DeGeorge, and Hiltgen discloses "the system" (see rejection to claim 1 above). DeGeorge further discloses "said

*entertainment device is selected from the group consisting of a DVD player and a television (Page 3, paragraph 0033)."*

As per claim 19, the combination of Striemer, DeGeorge, and Hiltgen discloses "the method" (see rejection to claim 9 above). DeGeorge further discloses "said entertainment device is selected from the group consisting of a DVD player and a television (Page 3, paragraph 0033)."

6. Claims 2, 6, and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Striemer (Patent Number US 6,931,463 B2), DeGeorge (Publication Number US 2003/0135868 A1), and Hiltgen (Publication Number US 2004/0216140 A1) in view of Henrie et al. (Patent Number US 6,519,144 B1).

As per claim 2, while the combination Striemer, DeGeorge, and Hiltgen discloses "the system" (see rejection to claim 1 above), the combination of Striemer, DeGeorge, and Hiltgen does not explicitly disclose physical coupling/attachment as disclosed in "at least one of said one or more functionality devices is arranged to be attachable to the entertainment device by means of at least one of a magnetic coupling, a suction pad, an adhesive coupling and a mechanical attachment mechanism."

Henrie et al. explicitly disclose physical coupling/attachment as "at least one of said one or more functionality devices (*in one embodiment the cradle 2000*) is arranged to be attachable to the (entertainment) device (*PDA 100*) by means of at least one of a magnetic coupling, a suction pad, an adhesive coupling and a mechanical attachment mechanism (*the PDA 100 is physically connected to the cradle 2000 through an electrical connector 181; FIG. 11F and 13*)."

Strierner, DeGeorge, Hiltgen, and Henrie et al. are analogous art in that they are from the same field of device interfacing, particularly of peripheral devices to a main device.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the system as disclosed by the combination of Strierner, DeGeorge, and Hiltgen with physical coupling/attachment as disclosed by Henrie et al., since such attachments can not only ensure that a user has all the necessary equipment without concern for a missing component, but also ensure greater security (as wireless signals can be intercepted by outside parties) and less interference, as opposed to wireless signal interfacing.

As per **claim 6**, while the combination of Strierner, DeGeorge, and Hiltgen discloses *"the system"* (see rejection to **claim 1** above), the combination of Strierner, DeGeorge, and Hiltgen does not explicitly disclose *"said one or more functionality devices are activated in response to actuation of a switch or button on the device,"* which Henrie et al. discloses as *"said one or more functionality devices are activated in response to actuation of a switch or button on said functionality devices (the cradle 2000 contains a hot synch button which, when pressed, provides for 'Hot Synch' enablement of the cradle 2000; Column 11, lines 22-27)."*

Strierner, DeGeorge, Hiltgen, and Henrie et al. are analogous art in that they are from the same field of device interfacing, particularly of peripheral devices to a main device.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the system as disclosed by the combination of Striemer, DeGeorge, and Hiltgen with device activation through a button or switch as disclosed by Henrie et al., which gives the user more control and flexibility with regard to device/peripheral activation as opposed to having the system automatically do so. Furthermore, such user-determined activation can also allow for the saving of electrical power on the device/peripheral if such device/peripheral runs on a battery. The button/switch is press/actuated only when the user actually needs/desires to operationally connect the device/peripheral.

As per claim 10, while the combination of Striemer, DeGeorge, and Hiltgen discloses *"the method"* (see rejection to claim 9 above), the combination of Striemer, DeGeorge, and Hiltgen does not explicitly disclose *"close spatial proximity corresponds to physical contact between said entertainment device and said at least one functionality device,"* which Henrie et al discloses as *"close spatial proximity corresponds to physical contact between said entertainment device and said at least one functionality device (the PDA 100 is physically connected to the cradle 2000 through an electrical connector 181; FIG. 11F and 13)."*

Striemer, DeGeorge, Hiltgen, and Henrie et al. are analogous art in that they are from the same field of device interfacing, particularly of peripheral devices to a main device.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the method as disclosed by the combination of Striemer,

DeGeorge, and Hiltgen with physical coupling/attachment as disclosed by Henrie et al. (see rejection to **claim 2** above for motivation).

As per **claim 11**, while the combination of Striemer, DeGeorge, and Hiltgen discloses "the method" (see rejection to **claim 9** above), the combination of Striemer, DeGeorge, and Hiltgen does not explicitly disclose "said at least one functionality device is attached to the entertainment device by means of at least one of a magnetic coupling, a suction pad, an adhesive coupling and a mechanical attachment mechanism," which Henrie et al. discloses as "said at least one functionality device is attached to the entertainment device by means of at least one of a magnetic coupling, a suction pad, an adhesive coupling and a mechanical attachment mechanism (**the cradle 2000 contains a hot synch button which, when pressed, provides for 'Hot Synch' enablement of the cradle 2000; Column 11, lines 22-27**)."

Striemer, DeGeorge, Hiltgen, and Henrie et al. are analogous art in that they are from the same field of device interfacing, particularly of peripheral devices to a main device.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the method as disclosed by the combination of Striemer, DeGeorge, and Hiltgen with physical coupling/attachment as disclosed by Henrie et al. (see rejection to **claim 2** above for motivation).

7. **Claims 14 and 17** are rejected under 35 U.S.C. 103(a) as being unpatentable over Striemer (Patent Number US 6,931,463 B2), DeGeorge (Publication Number US

2003/0135868 A1), and Hiltgen (Publication Number US 2004/0216140 A1) in view of Silvester (Publication Number US 2003/0068034 A1).

As per **claim 14**, while the combination of Strierner, DeGeorge, and Hiltgen discloses “the system” (see rejection to **claim 5** above), Silvester discloses the idea of latent functionality features being present in an entertainment device that are augmented by upgrade modules as “*wherein the one or more additional functionality features are latently present in said entertainment device and access to said additional functionality is available while one or more functionality devices are attached (modules may provide added functionality such as additional memory, additional processing, and the like (Abstract; Lines 3-6). The use of the term “added” indicates augmentation of current functions in the device, such as memory and processing in this instance).*”

Strierner, DeGeorge, Hiltgen, and Silvester are analogous art in that they are from the same field of device interfacing, particularly of peripheral devices to a main device.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the method as disclosed by the combination of Strierner, DeGeorge, and Hiltgen with elements of Silvester, which notes that when a user decides to upgrade to a more advanced device, the existing device becomes largely useless. This is compounded by the fact that the resale value of basic devices is relatively limited [Page 1, paragraph 0002]. Hence, in order to prolong the lifespan of the basic device and have the basic device remain useful to the user in the face of

increasing technological advancement, the use of modules that augments the basic device can be of great use.

As per **claim 17**, while the combination of Striemer, DeGeorge, and Hiltgen discloses "*the system*" (see rejection to **claim 5** above), Silvester discloses "*wherein the one or more additional functionality features are made available to said entertainment device from an external storage medium after attachment of the one or more functionality devices (the card 66 contains a storage 58 that includes software; Page 1, paragraph 0016; FIG. 3).*"

Striemer, DeGeorge, Hiltgen and Silvester are analogous art in that they are from the same field of device interfacing, particularly of peripheral devices to a main device.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the method as disclosed by the combination of Striemer, DeGeorge, and Hilgen with elements of Silvester, which notes that when a user decides to upgrade to a more advanced device, the existing device becomes largely useless. This is compounded by the fact that the resale value of basic devices is relatively limited [Page 1, paragraph 0002]. Hence, in order to prolong the lifespan of the basic device and have the basic device remain useful to the user in the face of increasing technological advancement, the use of modules that augments the basic device can be of great use.

8. **Claims 15-16** are rejected under 35 U.S.C. 103(a) as being unpatentable over Striemer (Patent Number US 6,931,463 B2), DeGeorge (Publication Number US



2003/0135868 A1), and Hiltgen (Publication Number US 2004/0216140 A1) in view of Kelley et al. (Publication Number US 2004/0253944 A1).

As per **claim 15**, while the combination of Strierner, DeGeorge, and Hiltgen discloses *"the system"* (see rejection to **claim 1** above), Kelley et al. discloses *"wherein a set of user preferences for an entertainment device is included on said one or more functionality devices (the RF-ID device is programmed to store the user preferences; Page 4, paragraph 0047)."*

Strierner, DeGeorge, Hiltgen, and Kelley et al. are analogous art in that they are from the same field of device interfacing, particularly of peripheral devices to a main device.

It would have been obvious to one of ordinary skill in the art at the time of invention to combine the method as disclosed by the combination of Strierner, DeGeorge, and Hiltgen with elements of Kelley et al., which notes that it is desirable to provide a way for users to upgrade the capability of their devices (in this case phones) without having to purchase an entirely new replacement phone [Page 1, paragraph 0005]. Furthermore, by including user preferences the user can utilize any similar device without being tied to one particular device [Page 4, paragraph 0047].

As per **claim 16**, the combination of Strierner, DeGeorge, Hiltgen, and Kelley et al. discloses *"the system"* (see rejection to **claim 1** above). Kelley et al. further discloses *"wherein said set of user preferences is transferable to a new entertainment device after relocating said one or more functionality devices to said new entertainment device (Pages 4-5, paragraph 0047)."*

**RELEVANT ART CITED BY THE EXAMINER**

9. The following prior art made of record and relied upon is cited to establish the level of skill in the applicant's art and those arts considered reasonably pertinent to applicant's disclosure. See **MPEP 707.05(c)**.

10. The following references teach device interfacing, particularly of peripheral devices to a main electronic device.

**U.S. PATENT NUMBERS:**

2003/0114192 A1

5,517,324 A

**CLOSING COMMENTS**

***Conclusions***

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HENRY YU whose telephone number is (571)272-9779. The examiner can normally be reached on Monday to Friday, 8:00 AM to 5:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TARIQ HAFIZ can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/H. Y./

Examiner, Art Unit 2182

June 28, 2010

/Tariq Hafiz/

Supervisory Patent Examiner, Art Unit 2182